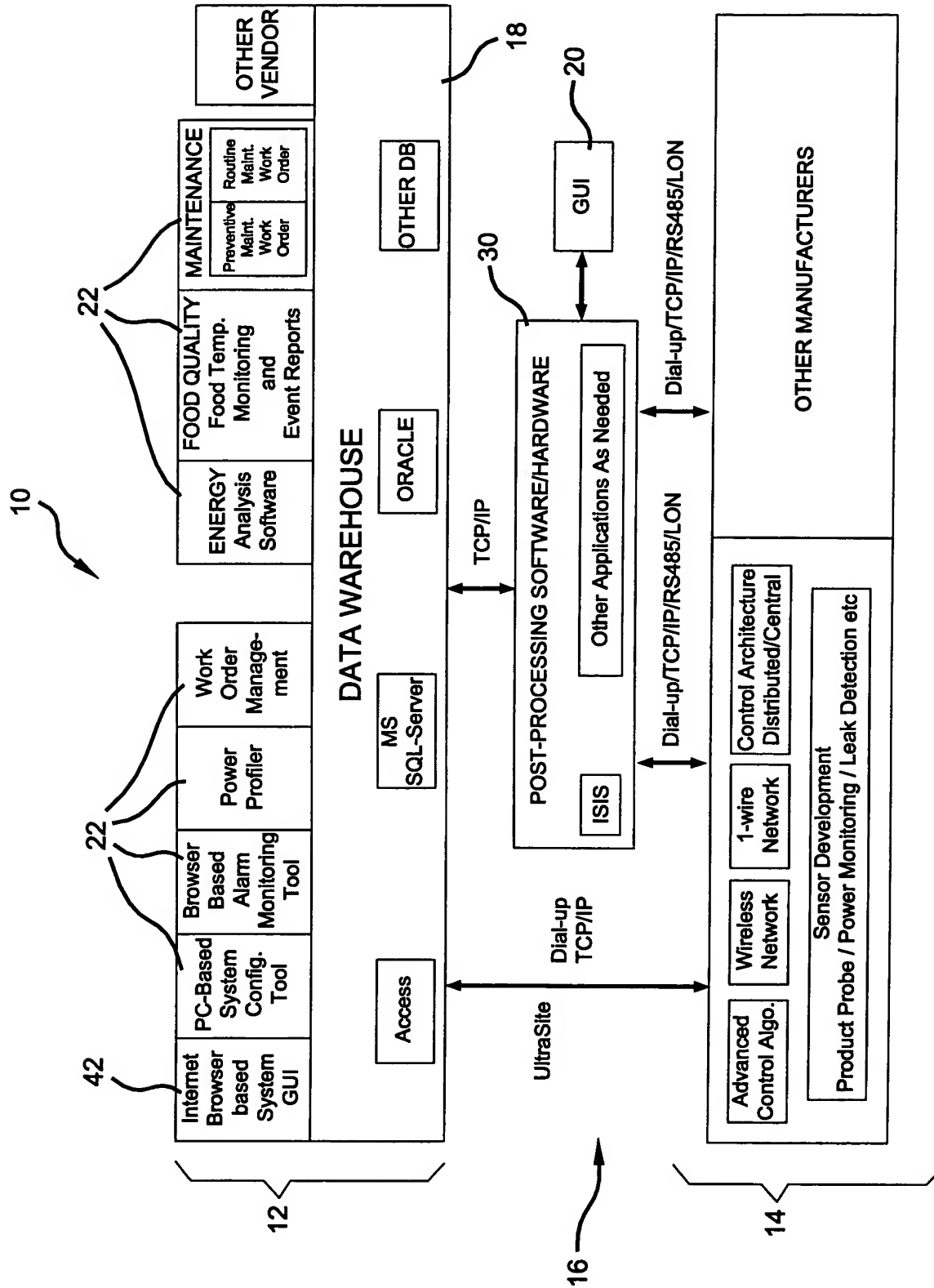


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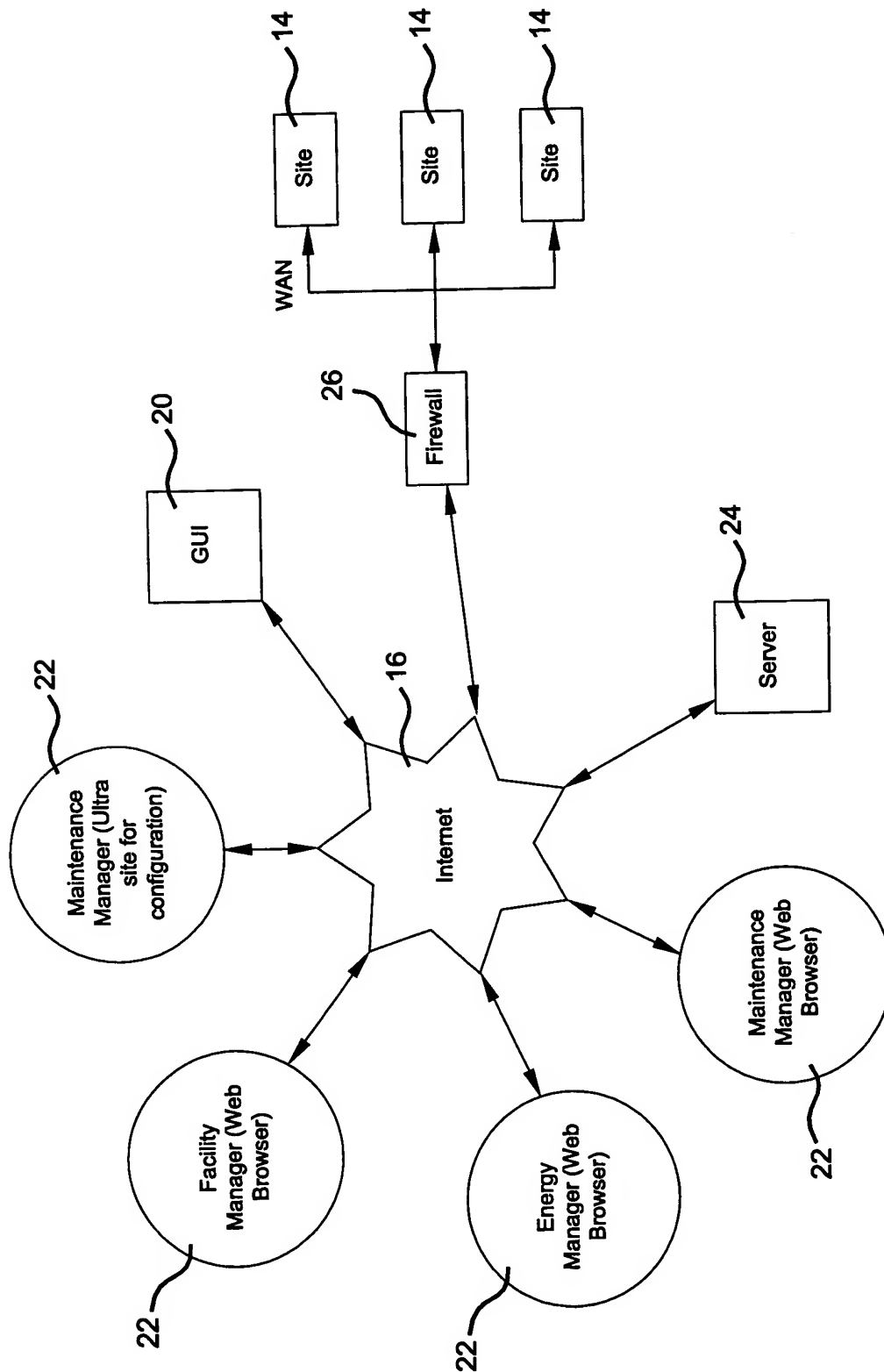


Figure 1B

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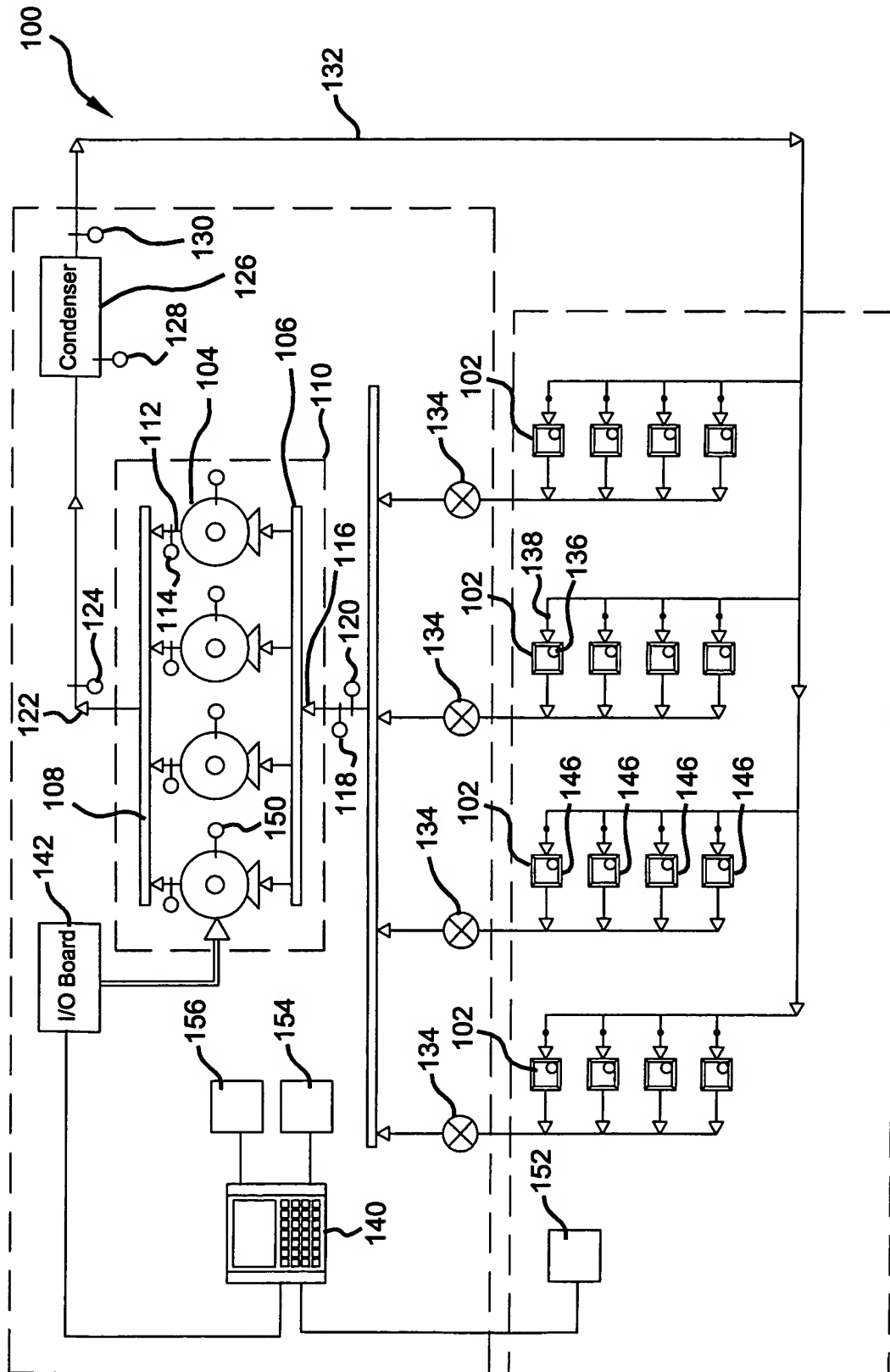


Figure 2

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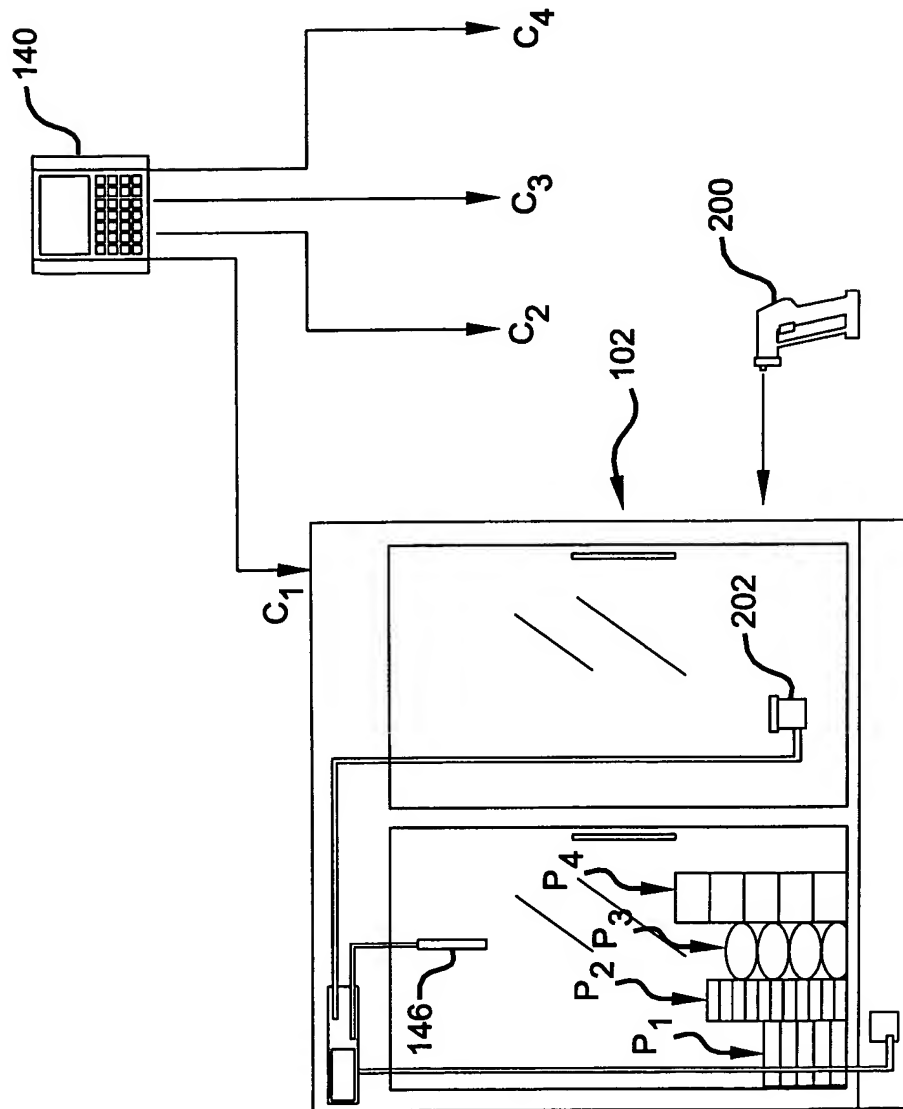


Figure 3

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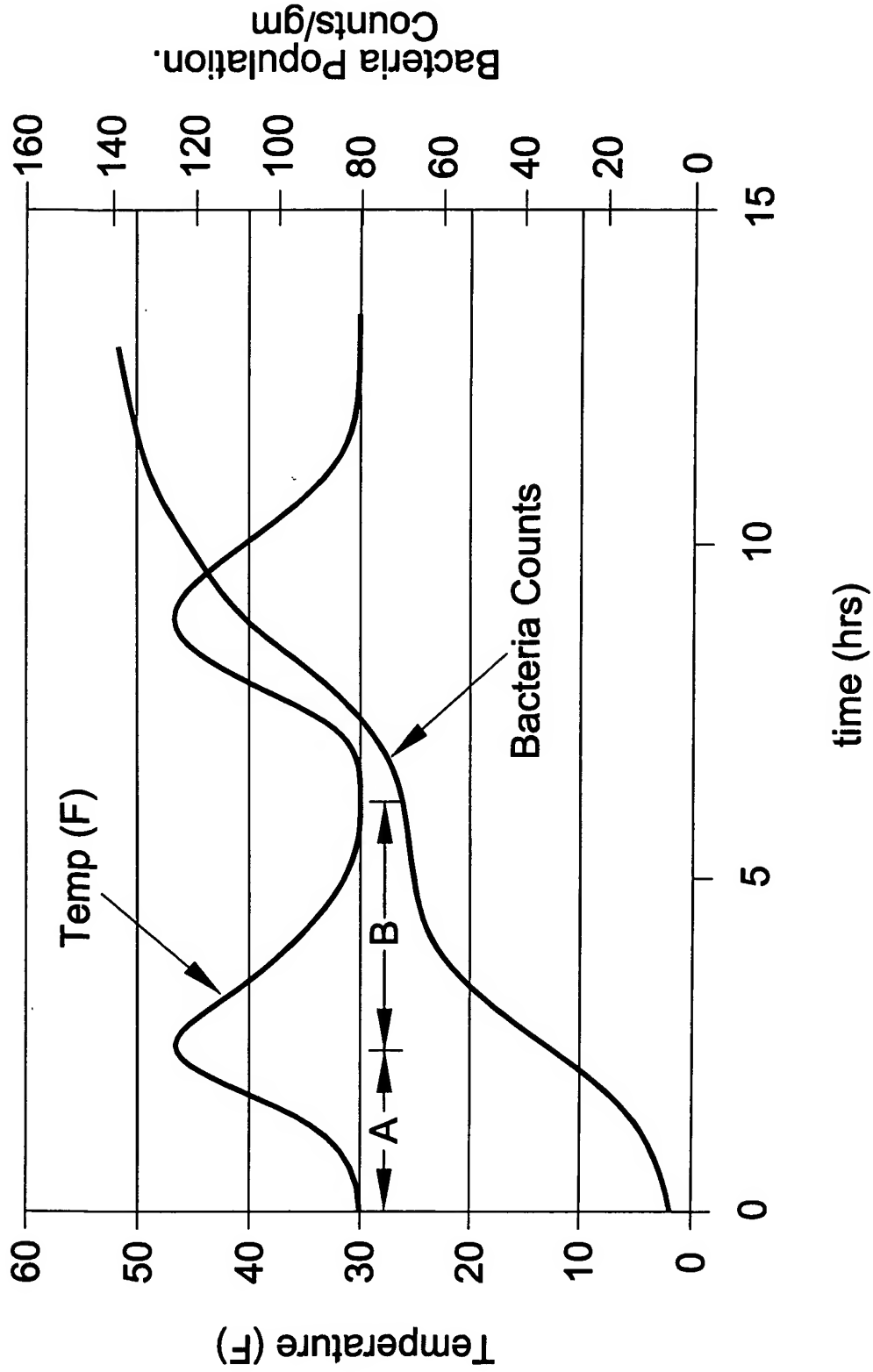


Figure 4

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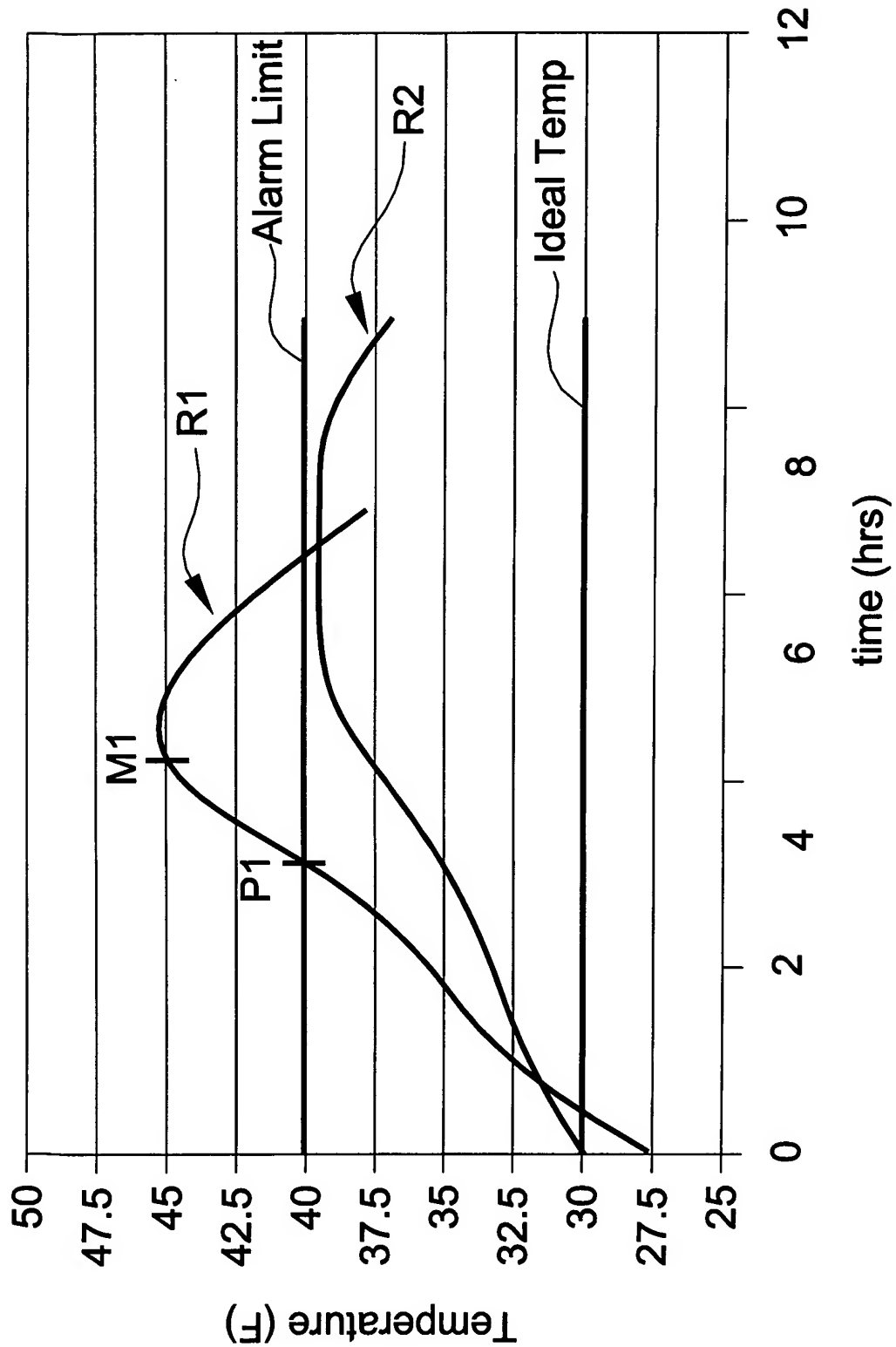


Figure 5

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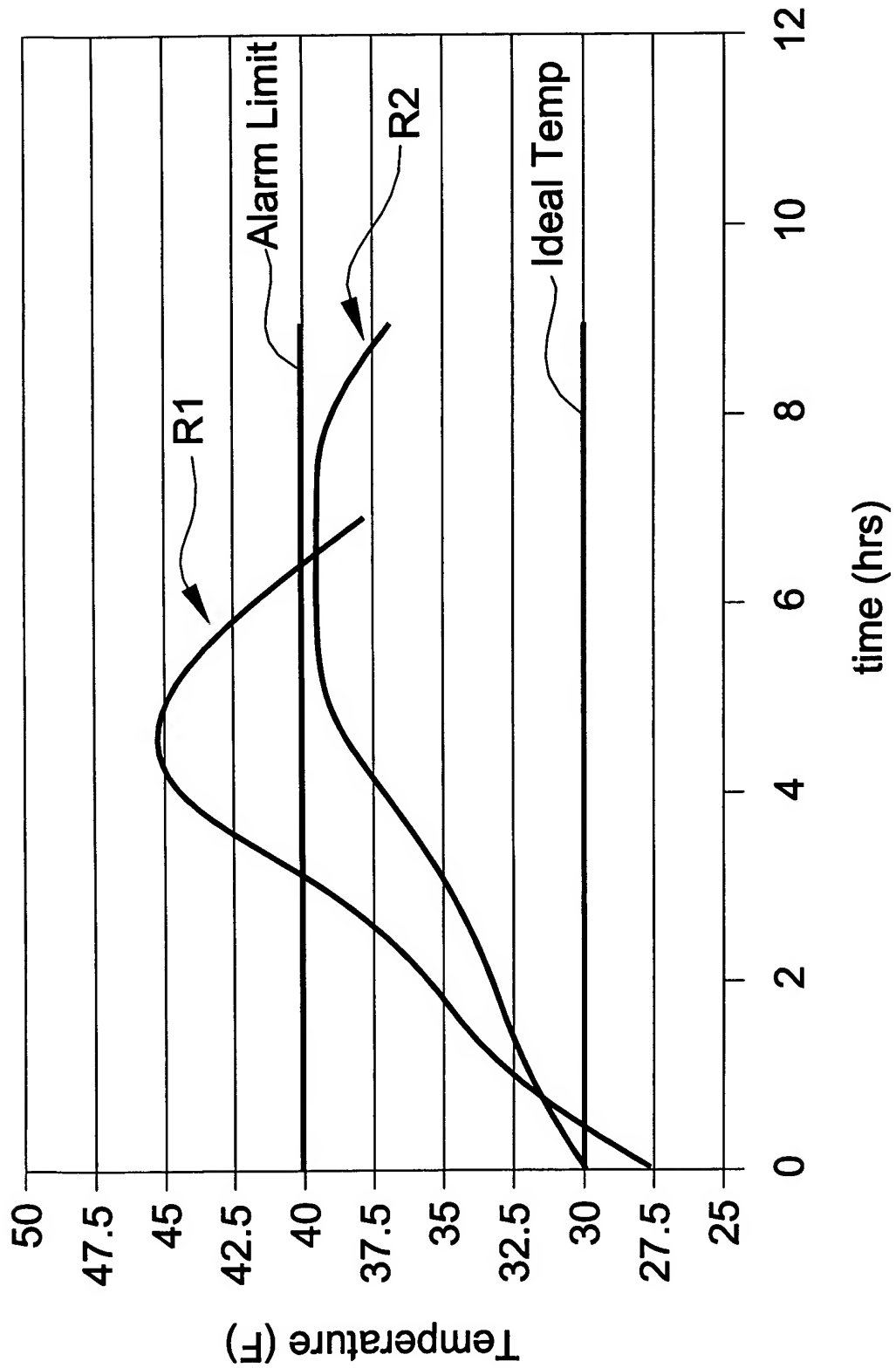


Figure 6

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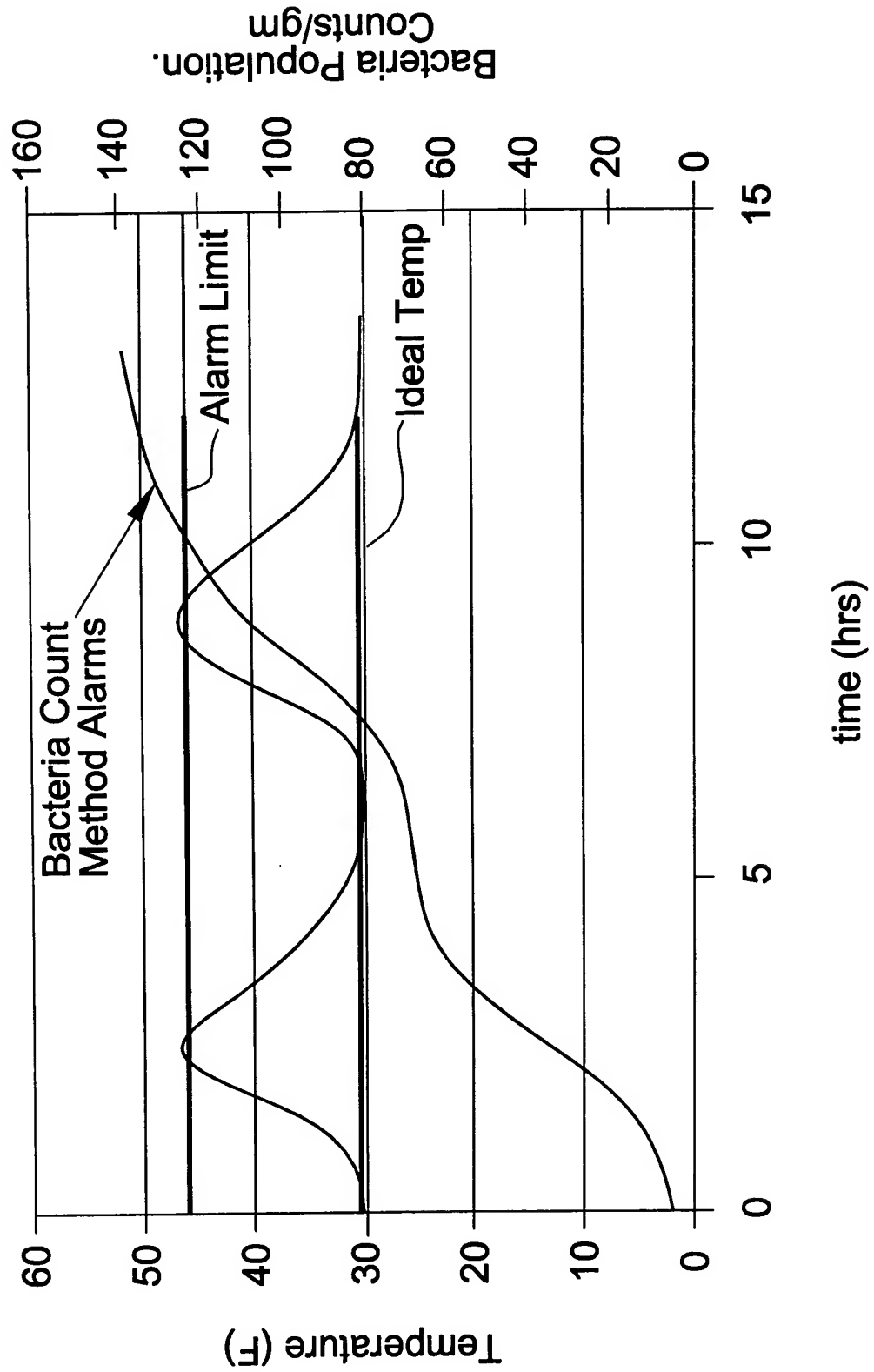


Figure 7

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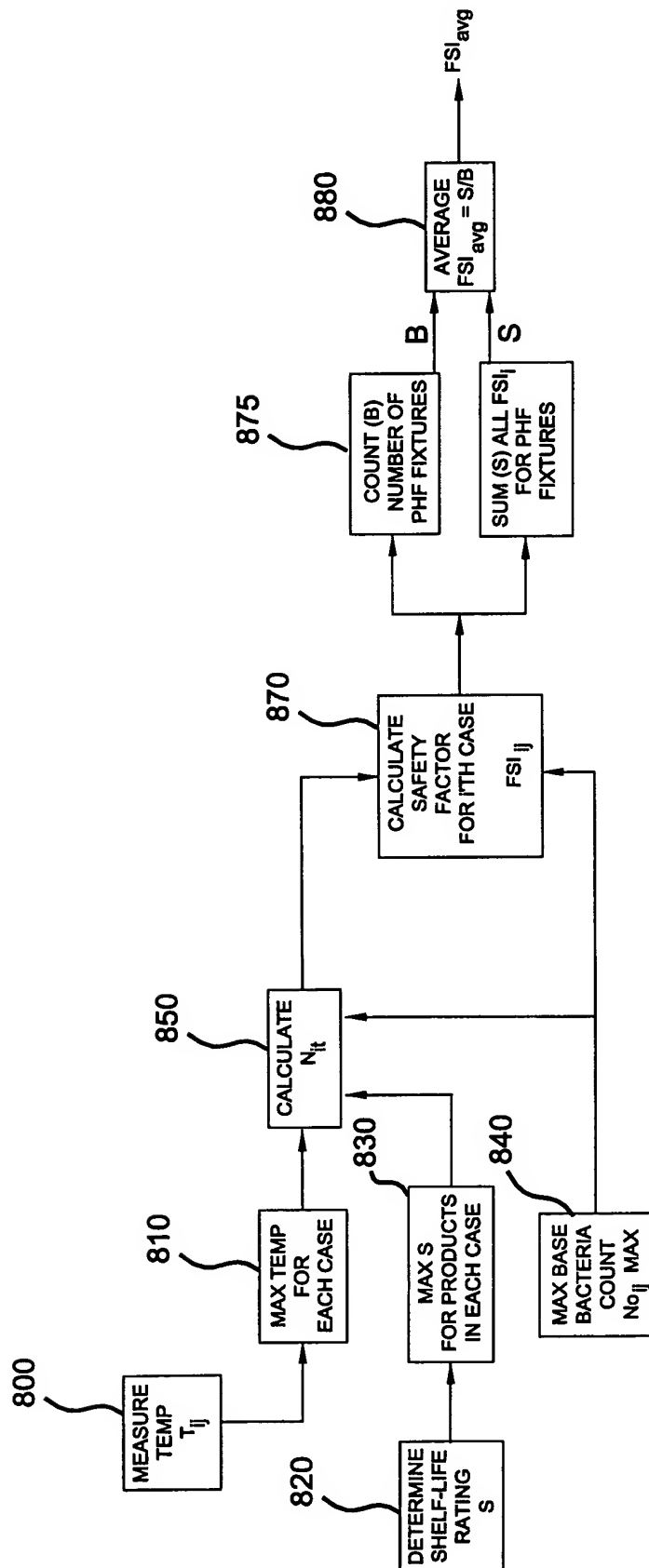


Figure 8

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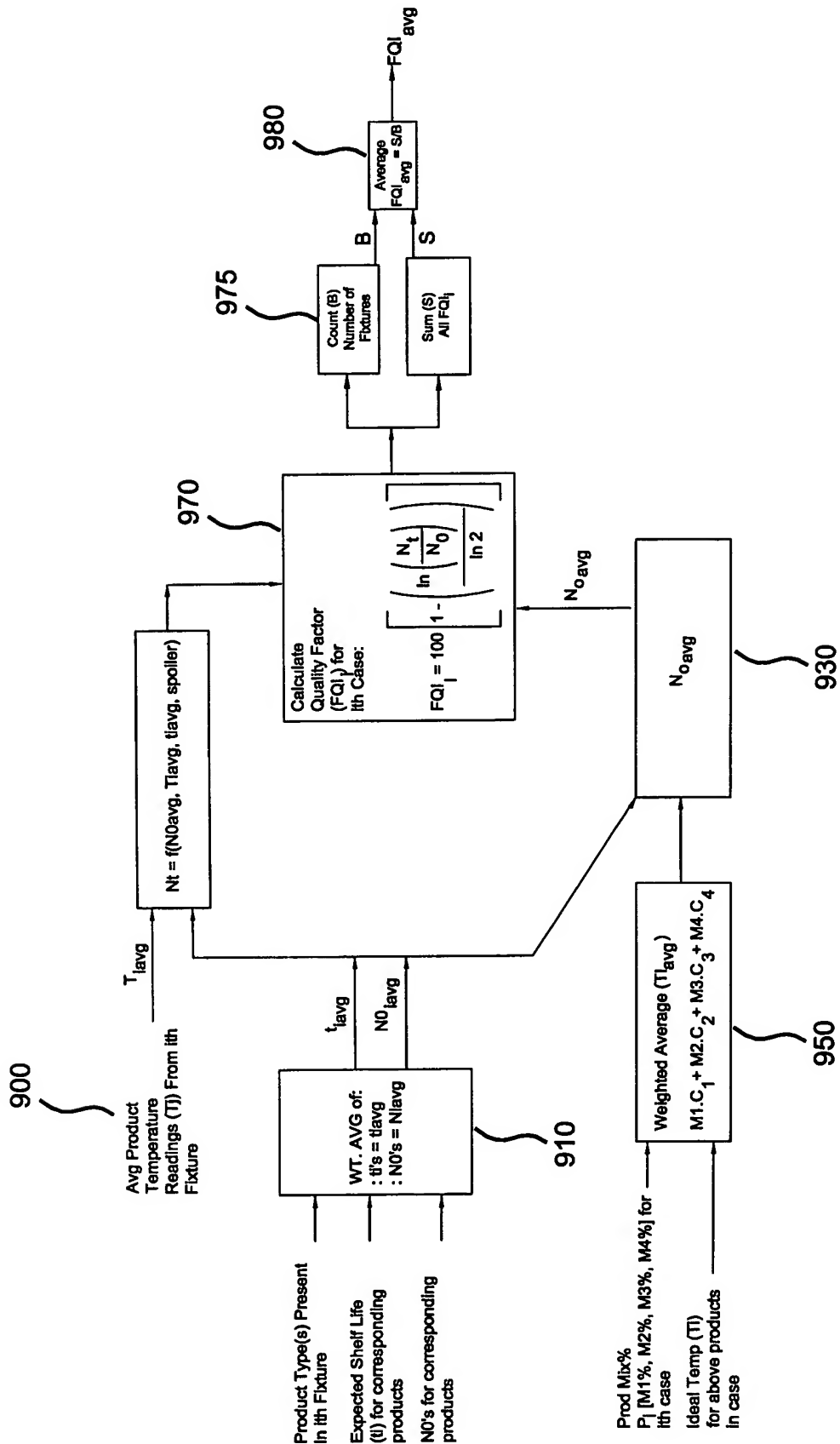


Figure 9

[illegible]

Figure 11

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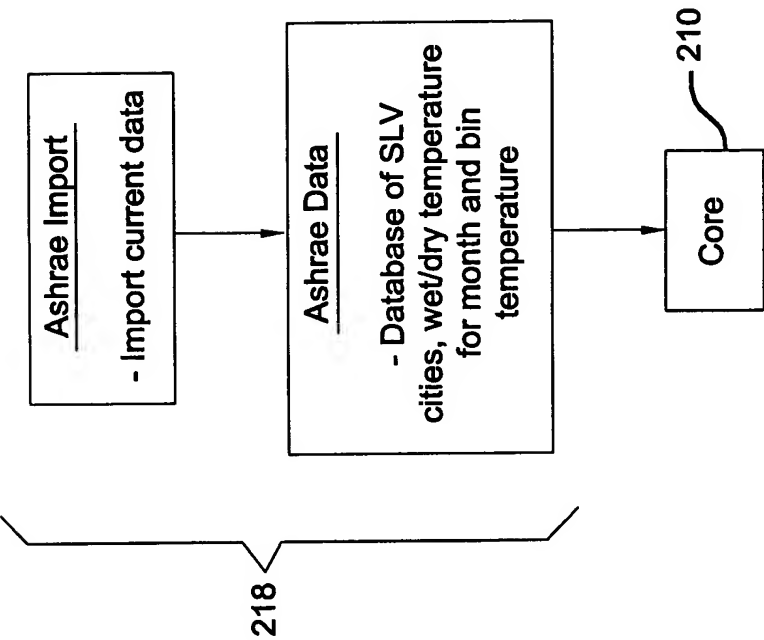


Figure 12

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		DO NOT CHANGE.... THIS PAGE IS POSITION DEPENDENT AND USED TO IMPORT NEW ASHRAE DATA !!!!																			
WYEC-2 site		NMALBUQW.WY2 (Albuquerque, New Mexico)																			
Latitude:		35.05 Longitude: -106.62																			
quantity	WYEC2 wetbulb																				
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	744
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	672
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	744
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	720
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	744
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	720
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	744
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	744
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	720
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	744
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	720
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	744
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8760

Figure 13

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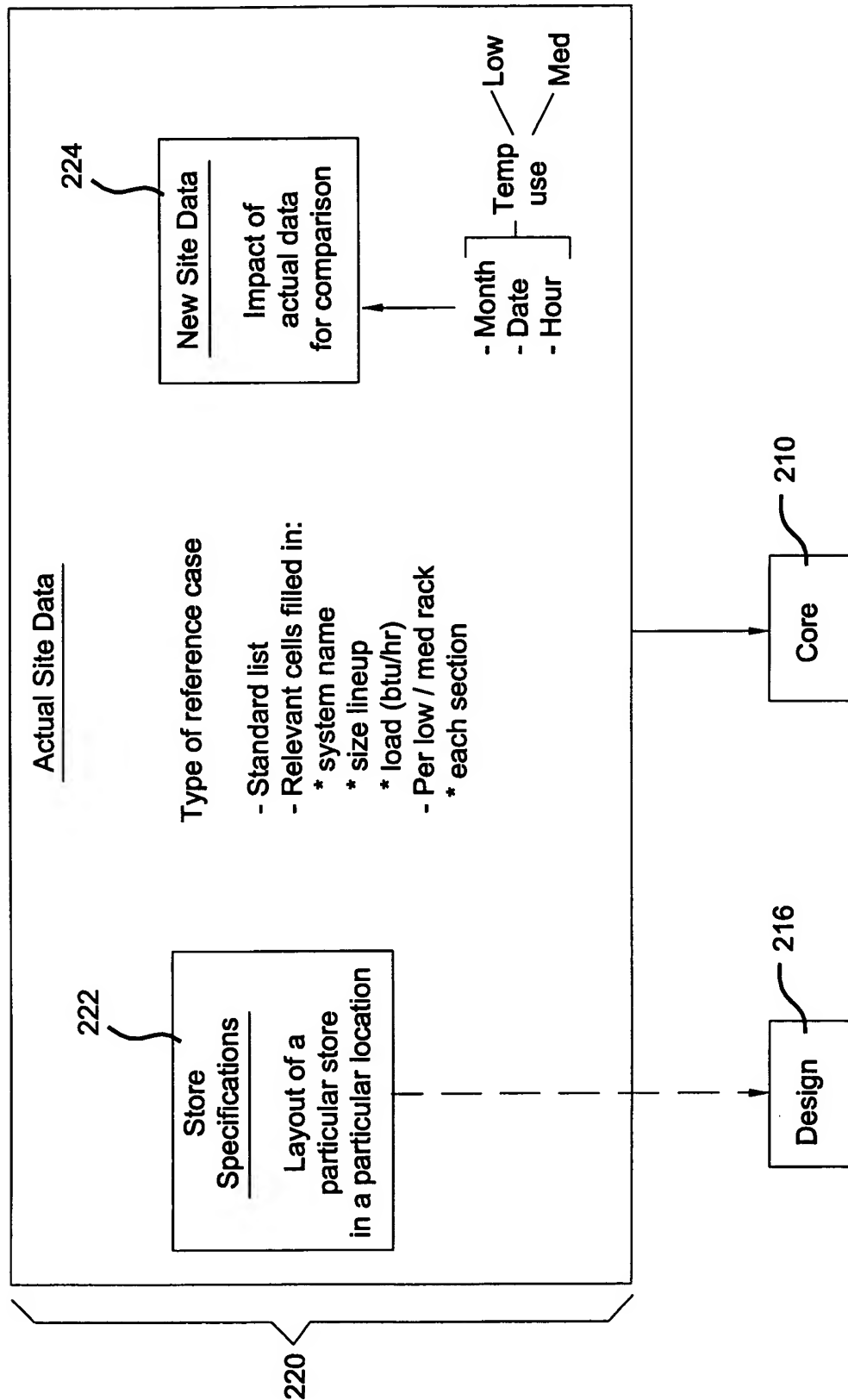


Figure 14

STORE SPECIFICATIONS						Total BTU/hr without Diversity Factor	1,023,000				
BASHAS											
#22											
1/4/2001											
Milliken											
APRILKUT (Phone#)											
ASHRAE CITY.....						#NAME7	#NAME7				
Use the above before to adjust one below											
Type	Load	Units	Notes	Factor	#NAME7	Size Lineup	System Name	Load BTU/hr	Size Lineup	System Name	Load BTU/hr
2 Door FF End	3800	n									
Coffin dairy	300	n									
Coffin dairy and	1600	n									
Coffin dairy	15	n									
Coffin F.F.	430	pc				A1-13	28 R	17640			
Coffin F.F.	630	pc				A1-13	28 R	17640			
Coffin F.F. end	2700	pc									
Coffin meat	315	n									
For Dairy											
Cooler Doors	800	dns									
Shop-Around Dairy	1600	dns									
Home ice machine	16000	zp				A1-14	16 R	7360			
I.C. End	485	zp									
I.C. End	485	zp				A2-15	7 R	3395			
I.C. End	485	zp				A2-15	7 R	3395			
I.C. End	485	zp				A2-15	7 R	3395			
Island Deli	1250	n									
Island Produce	1200	n									
Island Produce	1200	n									
Island Produce	1200	n									
Island Produce	1200	n									
Island Produce	1200	n									
MD Bakery	1200	n									
MD Beer	1300	n									
MD Beer widors	1300	n									
MD Dairy	1300	n									
MD Dairy	1300	n									
MD Dairy widors	585	dns									
MD Dairy widors	1650	n									
MD Deli	1650	n									
MD Egg Case	1300	pc									
MD Frozen food	1800	n									
MD frozen food	1800	n									
MD frozen meat	1700	n				A1-4	20 R	34000			B2-14
MD MD frozen meat	1700	n				A1-3	12 R	20400			B2-17
MD Meat	1350	n									
MD Meat	1350	n									
MD Produce	1300	n									
MD Produce	1300	n									
Nat Island Deli	1415	n									
Nat Open Deli	2200	n									
Nat Salad	485	n									
Nat Sery Deli	630	n									
Office A/C	8000	n									
Pizza prep	1200	n									
Pizza prep	1400	n									
R.I. Beef	1400	n									
R.I. Daily	1400	n									
R.I. floral	1000	dns									
R.I. Frozen Food	1700	dns				A1-1	16 dns	27700			
R.I. Frozen Food	1700	dns				A1-2	15 dns	25500			
R.I. Frozen Food	1700	dns				A1-4	16 dns	27700			
R.I. Frozen Food	1700	dns				A1-8	15 dns	25500			
R.I. Frozen Food	1700	dns				A1-9	15 dns	25500			
R.I. Frozen Food	1700	dns				A1-10	2 dns	3400			
R.I. Ice Cream	1800	dns									

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ACTUAL DAY BY DAY, HOUR BY HOUR DATA										ACTUAL DAY BY DAY, HOUR BY HOUR DATA FOR 24 HOUR PERIOD								
Data must be sorted by date and hour																		
kwmonth	kwdate	kwhour	temp	kwuselt	kwusemt	Storepop	kwdate	kwhour	temp	kwuselt	kwusemt	Storepop	kwdate	kwhour	temp	kwuselt	kwusemt	Storepop
1	01/18/01	1.0	44.8	40.8	43.0	2.0	01/18/01	1	39	39	43	2	01/18/01	1	39	39	43	2
1	01/18/01	2.0	44.8	40.8	43.0	2.0	01/18/01	2	39	39	43	2	01/18/01	2	39	39	43	2
1	01/18/01	3.0	44.8	40.8	43.0	2.0	01/18/01	3	39	39	43	2	01/18/01	3	39	39	43	2
1	01/18/01	4.0	44.8	40.8	43.0	2.0	01/18/01	4	39	39	43	2	01/18/01	4	39	39	43	2
1	01/18/01	5.0	44.8	40.8	43.0	2.0	01/18/01	5	39	39	43	2	01/18/01	5	39	39	43	2
1	01/18/01	6.0	44.8	40.8	43.0	2.0	01/18/01	6	39	39	43	2	01/18/01	6	39	39	43	2
1	01/18/01	7.0	44.8	40.8	43.0	2.0	01/18/01	7	39	39	43	2	01/18/01	7	39	39	43	2
1	01/18/01	8.0	44.8	40.8	43.0	2.0	01/18/01	8	39	39	43	2	01/18/01	8	39	39	43	2
1	01/18/01	9.0	44.8	40.8	43.0	2.0	01/18/01	9	39	39	43	2	01/18/01	9	39	39	43	2
1	01/18/01	10.0	44.8	40.8	43.0	2.0	01/18/01	10	39	39	43	2	01/18/01	10	39	39	43	2
1	01/18/01	11.0	44.8	40.8	43.0	2.0	01/18/01	11	39	39	43	2	01/18/01	11	39	39	43	2
1	01/18/01	12.0	44.8	40.8	43.0	2.0	01/18/01	12	39	39	43	2	01/18/01	12	39	39	43	2
1	01/18/01	13.0	44.8	40.8	43.0	2.0	01/18/01	13	39	39	43	2	01/18/01	13	39	39	43	2
1	01/18/01	14.0	44.8	40.8	43.0	2.0	01/18/01	14	39	39	43	2	01/18/01	14	39	39	43	2
1	01/18/01	15.0	44.8	40.8	43.0	2.0	01/18/01	15	39	39	43	2	01/18/01	15	39	39	43	2
1	01/18/01	16.0	44.8	40.8	43.0	2.0	01/18/01	16	39	39	43	2	01/18/01	16	39	39	43	2
1	01/18/01	17.0	44.8	40.8	43.0	2.0	01/18/01	17	39	39	43	2	01/18/01	17	39	39	43	2
1	01/18/01	18.0	44.8	40.8	43.0	2.0	01/18/01	18	39	39	43	2	01/18/01	18	39	39	43	2
1	01/18/01	19.0	44.8	40.8	43.0	2.0	01/18/01	19	39	39	43	2	01/18/01	19	39	39	43	2
1	01/18/01	20.0	44.8	40.8	43.0	2.0	01/18/01	20	39	39	43	2	01/18/01	20	39	39	43	2
1	01/18/01	21.0	44.8	40.8	43.0	2.0	01/18/01	21	39	39	43	2	01/18/01	21	39	39	43	2
1	01/18/01	22.0	44.8	40.8	43.0	2.0	01/18/01	22	39	39	43	2	01/18/01	22	39	39	43	2
1	01/18/01	23.0	44.8	40.8	43.0	2.0	01/18/01	23	39	39	43	2	01/18/01	23	39	39	43	2
1	01/18/01	0.0	44.8	40.8	43.0	2.0	01/19/01	0	39	16	42	2	01/19/01	0	39	16	42	2

Figure 16

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GENERAL MODEL CALCULATIONS																				
LOW and MEDIUM TEMP RACK kWh Use for Each Bin Hour																				
Amb Temp	Subcooler T		Suct T		Base Load		Suct T		Base Load		Suct T		Base Load		Suct T		Base Load		Suct T	
	Cond T	Tin	Tout	Comp	Base Load	Comp Eff	Base Load	Comp	Base Load	Comp Eff	Base Load	Comp	Base Load	Comp Eff	Base Load	Comp	Base Load	Comp Eff	Base Load	Comp Eff
	Temp			s.c. load	281.332	65%	281.332	Comp	13.580	65%	281.332	Comp	13.580	65%	281.332	Comp	13.580	65%	281.332	Comp
-25	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
-24	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
-23	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
-22	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
-21	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
-20	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
-19	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
-18	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
-17	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
-16	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
-15	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
-14	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
-13	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
-12	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
-11	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
-10	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
-9	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
-8	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
-7	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
-6	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
-5	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
-4	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
-3	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
-2	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
-1	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
0	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
1	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
2	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
3	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
4	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
5	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
6	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
7	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
8	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
9	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
10	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
11	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
12	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
13	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
14	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-
15	55.5285	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	-	-	-	-	-	-	-	-	-	-

Figure 17

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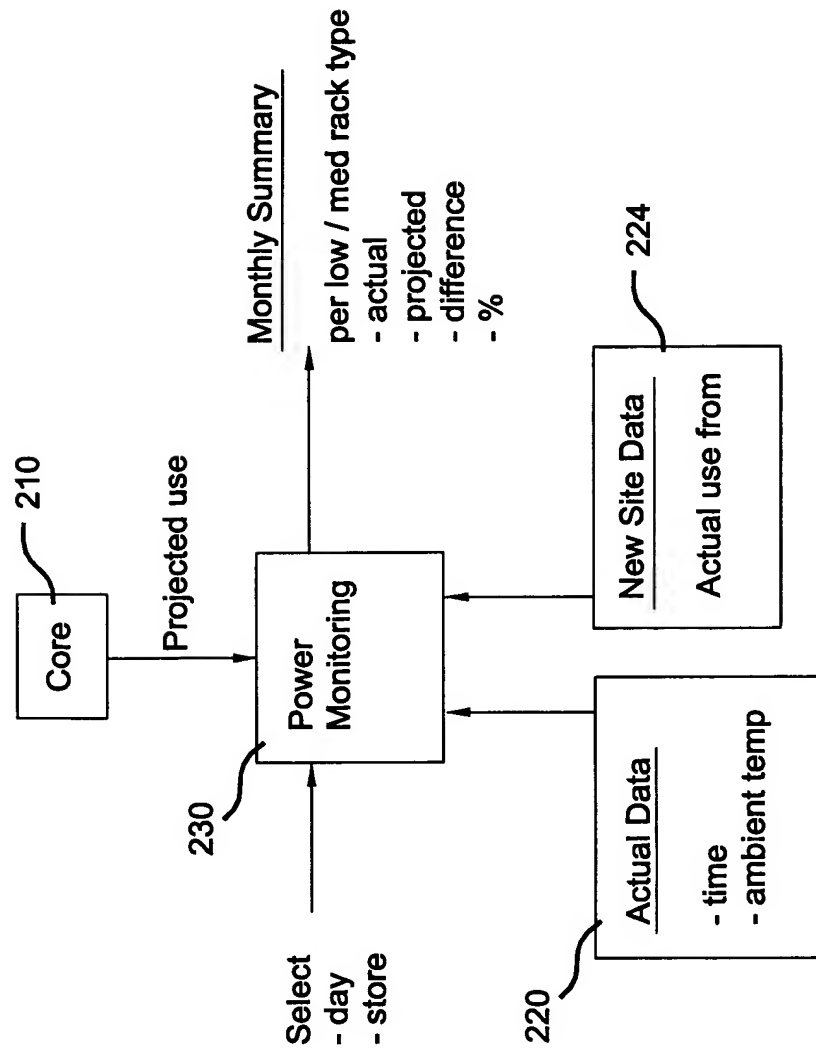


Figure 18

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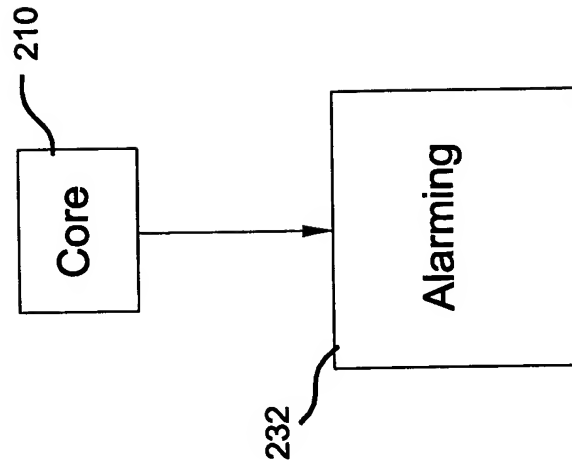


Figure 19

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POWER MONITORING TOOL actual versus projected use									
<div>#22 - MONTHLY SUMMARY</div> <div> <div>LOW TEMP RACK</div> <div> Actual kWh Use 14,938 Projected kWh Use 12,463 Difference 2,475 % Over/Under(-) Proj 19.9% </div> </div> <div> <div>MEDIUM TEMP RACK</div> <div> Actual kWh Use 15,840 Projected kWh Use 9,682 Difference 6,158 % Over/Under(-) Proj 63.6% </div> </div> <div> <div>BOTH LOW AND MEDIUM</div> <div> Actual kWh Use 30,778 Projected kWh Use 22,145 Difference 8,633 % Over/Under(-) Proj 39.0% </div> </div>									
<div>Enter Beginning Day and Hour to start 24 hour summary</div> <div>Monthly data will begin on the specified date and run for 31 days</div> <div>Yearly data will be accumulated by actual month</div> <div>STORE NAME</div> <div>Beginning Day</div> <div>Beginning Hour (0-23)</div> <div>Date Index ... calculated, do not enter</div> <div>Click to Update Date and Time</div> <div>Comparison Charts available on next page</div>									
ACTUAL HOURLY DATA									
for selected day		Ambient Temp		Occupancy Factor		Low Temp Rack		Medium Temp Rack	
Time of Day						Total kWh		Total kWh	
1	45	33.825	25.120	57.784	57.784	40.381	41.500	81.881	83.769
2	44	33.334	24.450	57.784	57.784	40.769	43.000	83.769	83.769
3	44	33.334	24.450	57.784	57.784	40.769	43.000	83.769	83.769
4	44	33.334	24.450	57.784	57.784	40.769	43.000	83.769	83.769
5	44	33.334	24.450	57.784	57.784	40.769	43.000	83.769	83.769
6	44	33.334	24.450	57.784	57.784	40.769	43.000	83.769	83.769
7	44	33.334	24.450	57.784	57.784	40.769	43.000	83.769	83.769
8	44	33.334	24.450	57.784	57.784	40.769	43.000	83.769	83.769
9	44	33.334	24.450	57.784	57.784	40.769	43.000	83.769	83.769
10	44	33.334	24.450	57.784	57.784	40.769	43.000	83.769	83.769
11	44	33.334	24.450	57.784	57.784	40.769	43.000	83.769	83.769
12	44	33.334	24.450	57.784	57.784	40.769	43.000	83.769	83.769
13	44	33.334	24.450	57.784	57.784	40.769	43.000	83.769	83.769
14	44	33.334	24.450	57.784	57.784	40.769	43.000	83.769	83.769
15	44	33.334	24.450	57.784	57.784	40.769	43.000	83.769	83.769
16	44	33.334	24.450	57.784	57.784	40.769	43.000	83.769	83.769
17	44	33.334	24.450	57.784	57.784	40.769	43.000	83.769	83.769
18	44	33.334	24.450	57.784	57.784	40.769	43.000	83.769	83.769
19	44	33.334	24.450	57.784	57.784	40.769	43.000	83.769	83.769

COMPARISON

Low Temp Rack		Medium Temp Rack		High Temp Rack		Running Total	
Over Est	Temp	Over Est	Temp	Over Est	Temp	Over Est	Temp
7.435	19.4%	16.380	65.2%	22.936	38.9%	22.936	38.9%
7.435	22.3%	18.550	75.9%	25.985	45.0%	48.921	41.9%
7.435	22.3%	18.550	75.9%	25.985	45.0%	74.906	42.9%
7.435	22.3%	18.550	75.9%	25.985	45.0%	100.89	43.4%
7.435	22.3%	18.550	75.9%	25.985	45.0%	126.875	43.7%
7.435	22.3%	18.550	75.9%	25.985	45.0%	152.86	43.9%
7.435	22.3%	18.550	75.9%	25.985	45.0%	178.844	44.1%
7.435	22.3%	18.550	75.9%	25.985	45.0%	204.829	44.2%
7.435	22.3%	18.550	75.9%	25.985	45.0%	230.814	44.3%
7.435	22.3%	18.550	75.9%	25.985	45.0%	256.798	44.4%
7.435	22.3%	18.550	75.9%	25.985	45.0%	282.783	44.4%
7.435	22.3%	18.550	75.9%	25.985	45.0%	308.767	44.5%
7.435	22.3%	18.550	75.9%	25.985	45.0%	334.752	44.5%
7.435	22.3%	18.550	75.9%	25.985	45.0%	360.737	44.5%
7.435	22.3%	18.550	75.9%	25.985	45.0%	386.721	44.6%
7.435	22.3%	18.550	75.9%	25.985	45.0%	412.706	44.6%
7.435	22.3%	18.550	75.9%	25.985	45.0%	438.691	44.6%
7.435	22.3%	18.550	75.9%	25.985	45.0%	464.675	44.6%
7.435	122.3%	19.550	75.9%	25.985	45.0%	490.66	44.6%

Figure 20



Figure 21

Figure 22

Figure 22

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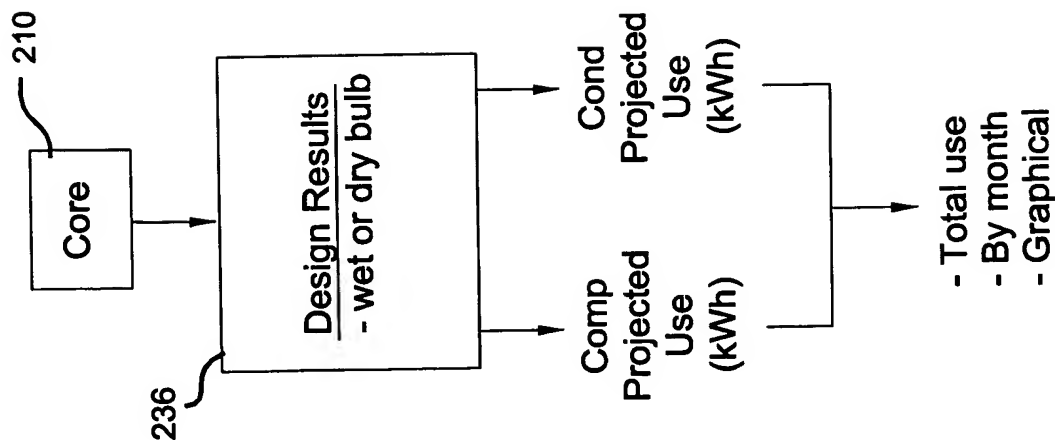


Figure 23

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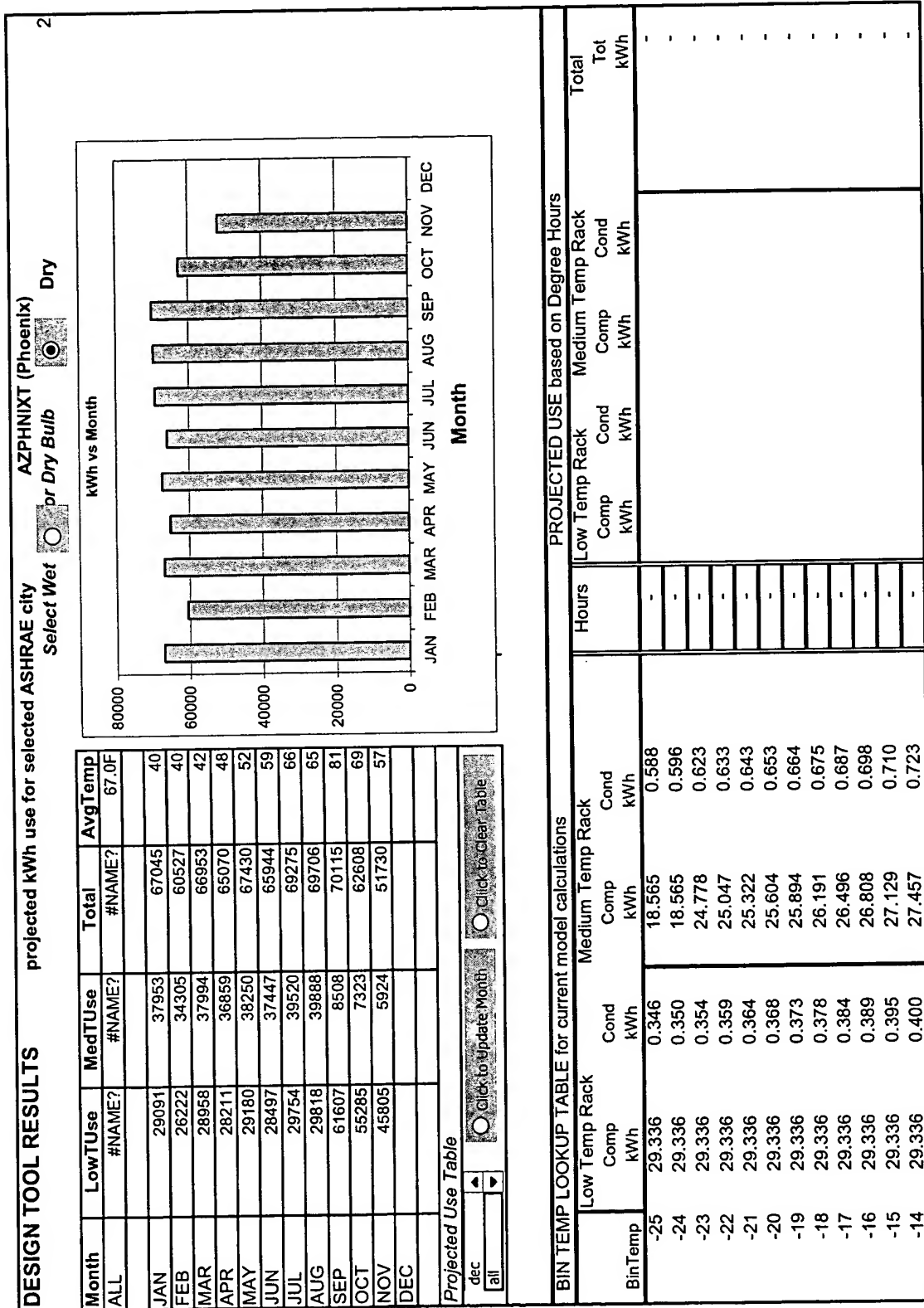


Figure 24

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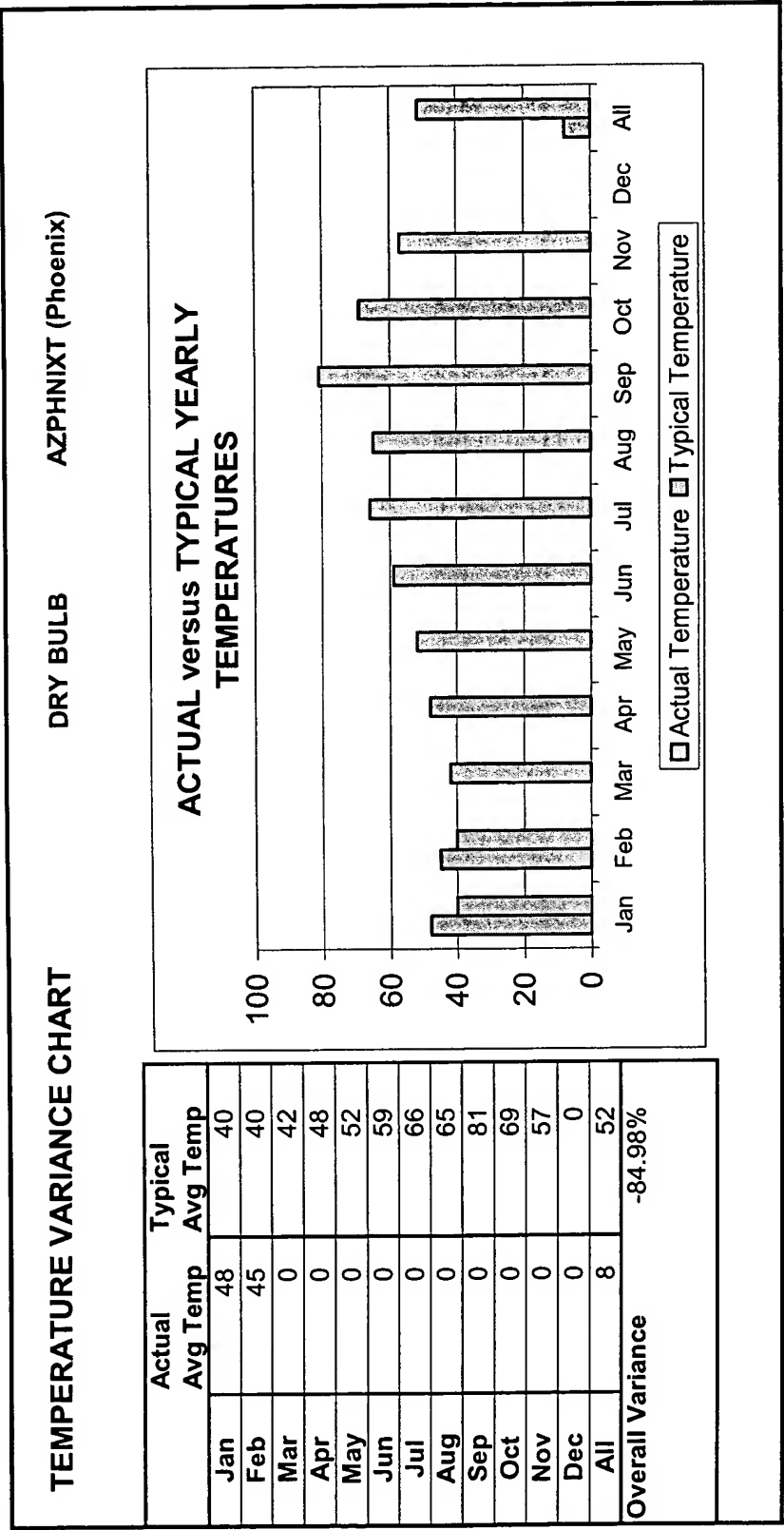


Figure 25

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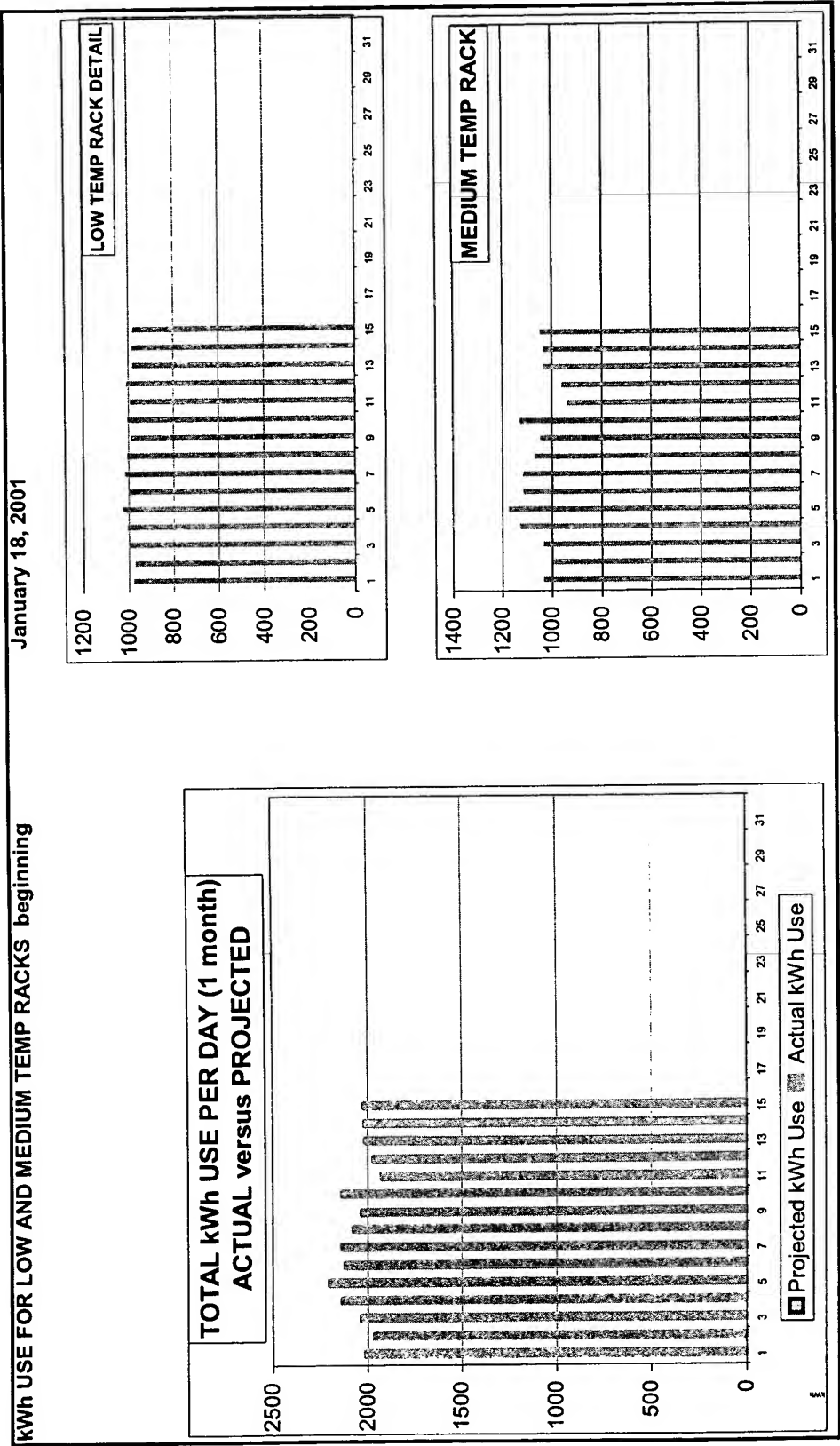
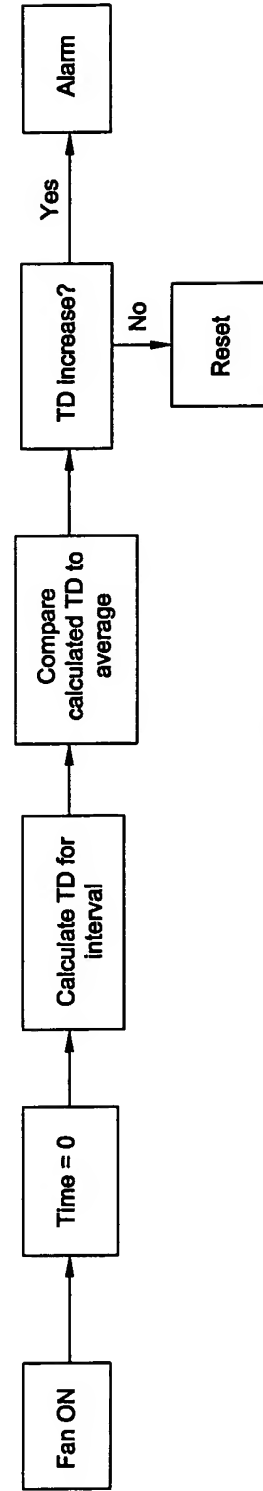
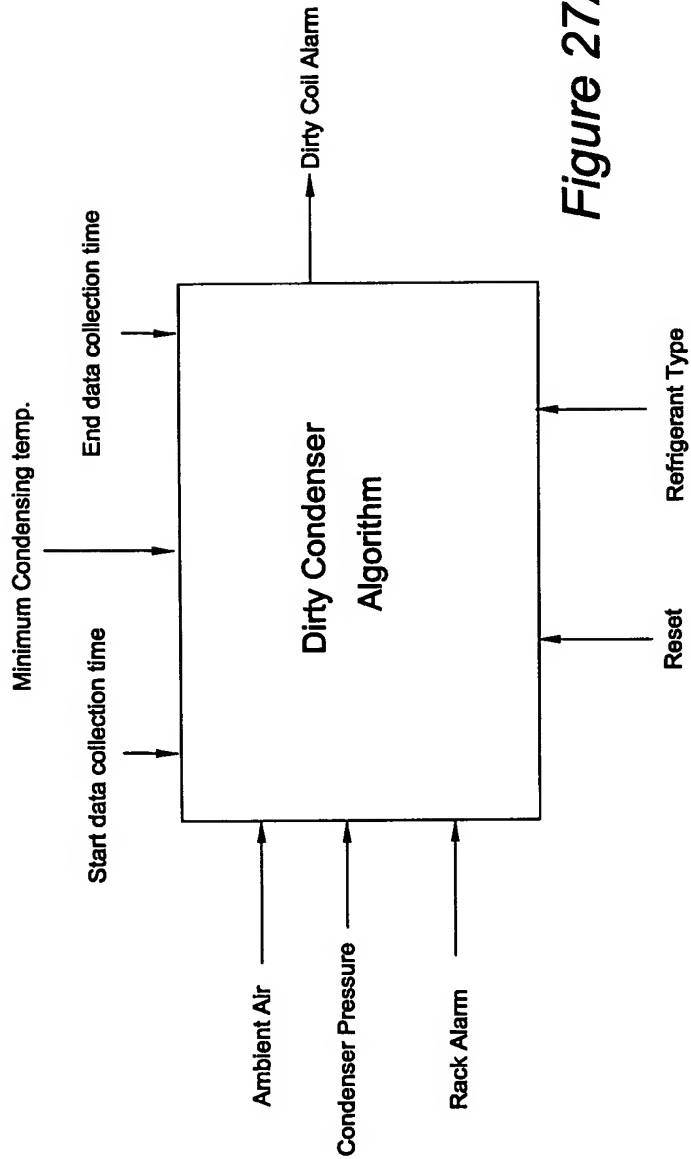


Figure 26

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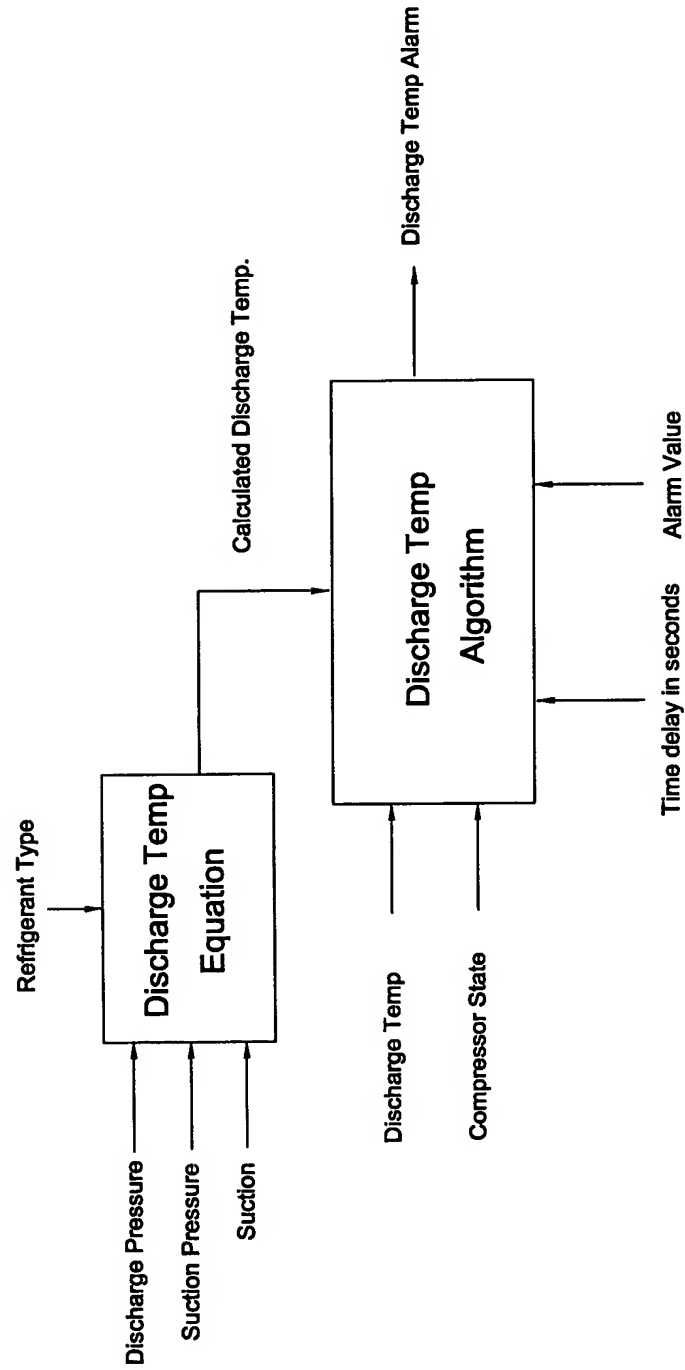


Figure 28

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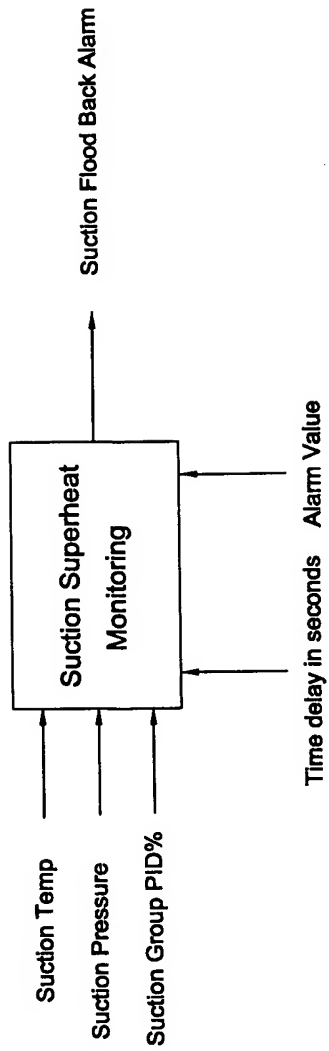


Figure 29A

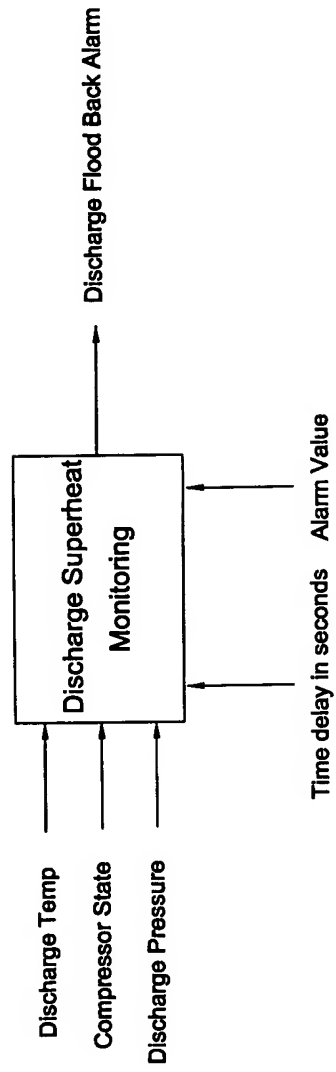


Figure 29B

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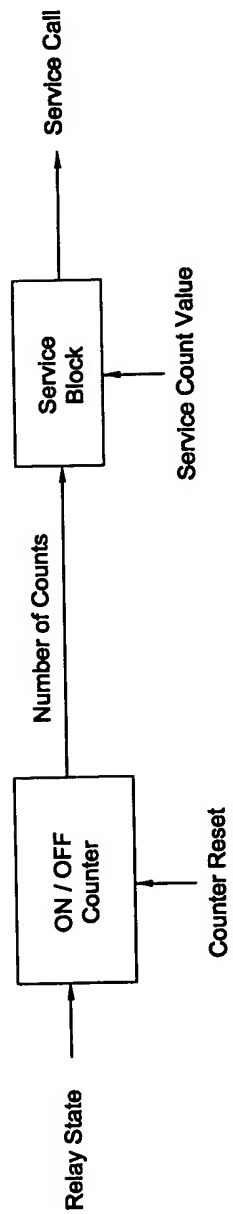


Figure 30

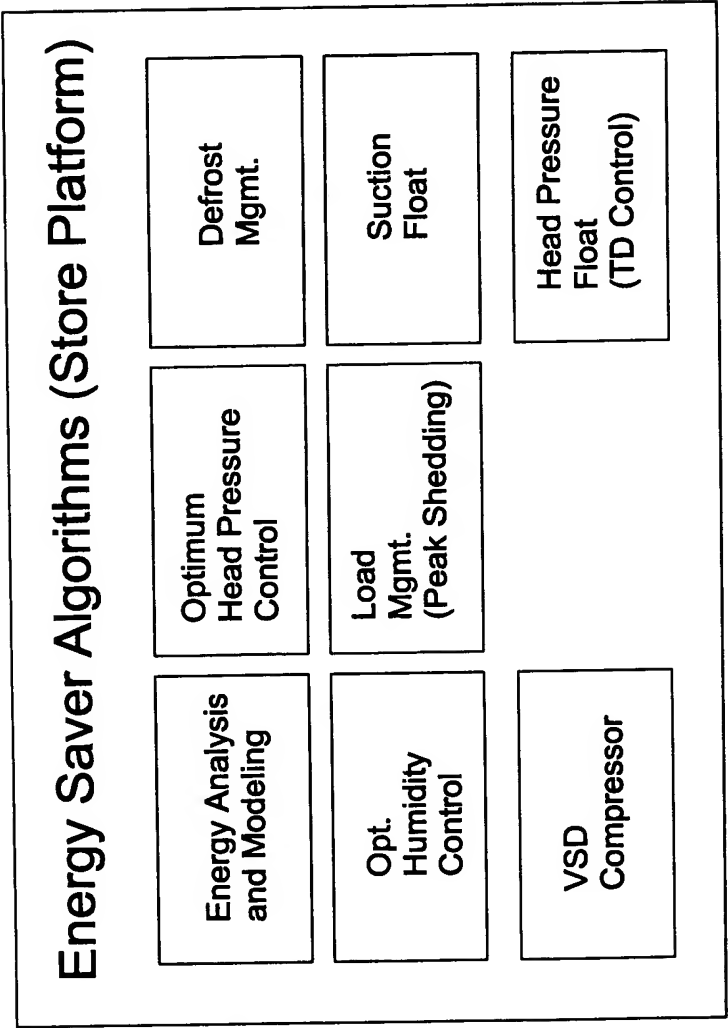


Figure 31

Figure 32

Figure 32

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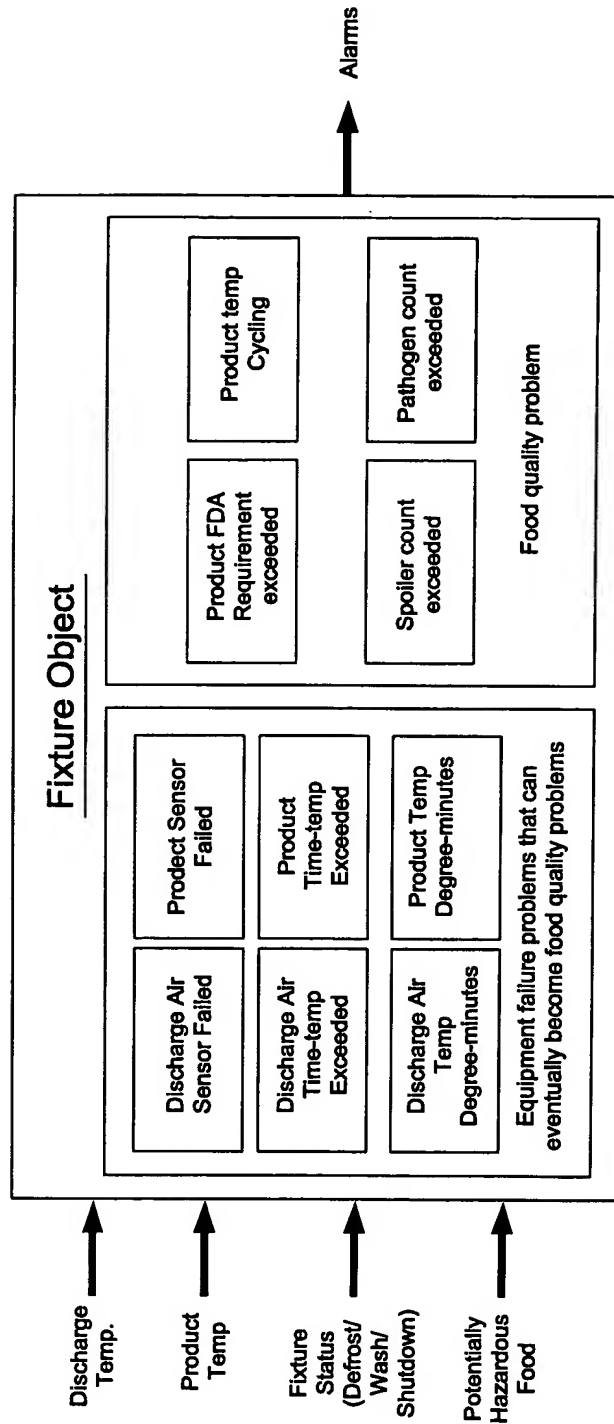


Figure 33

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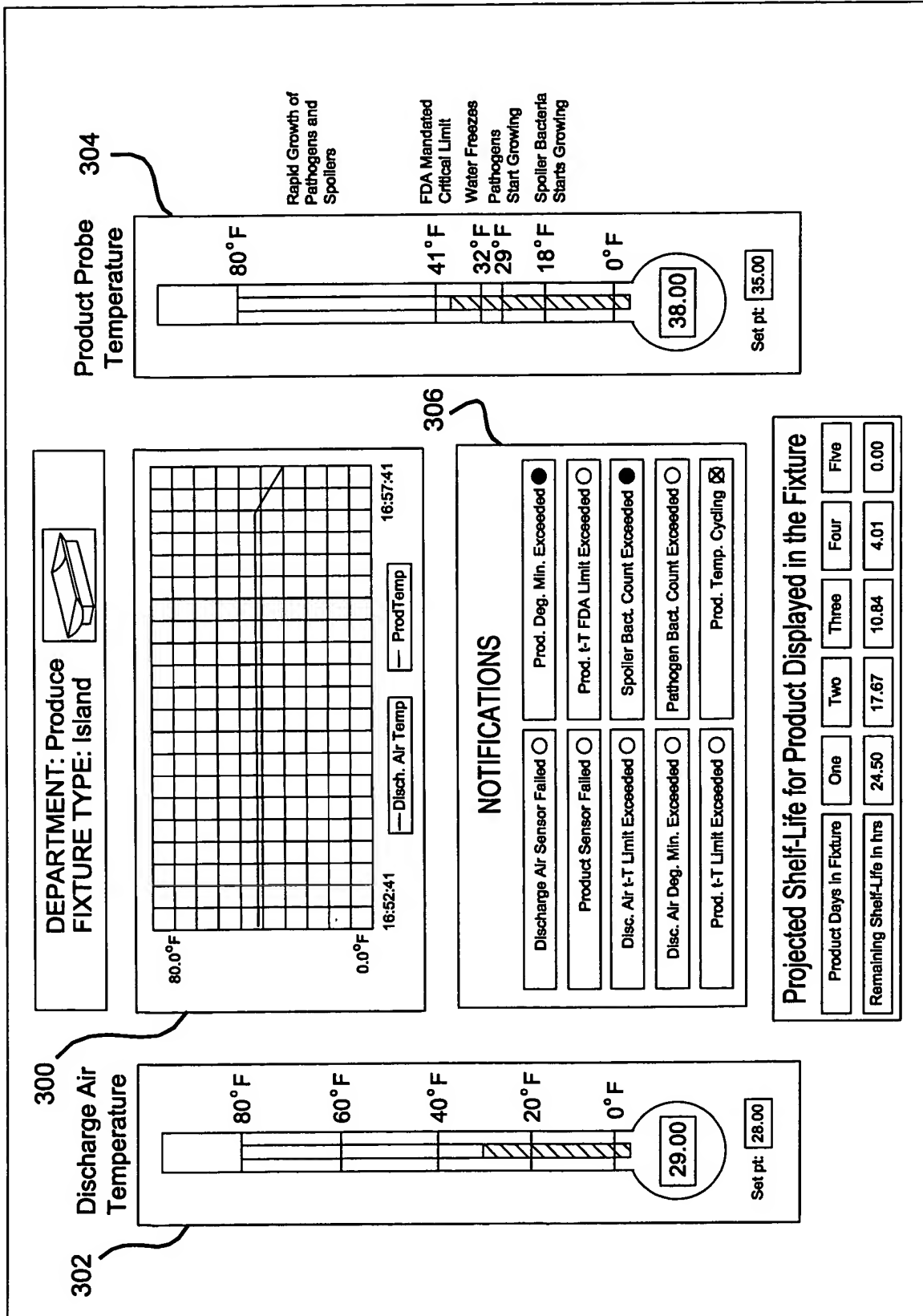


Figure 34